

(19)



Europäisches Patentamt
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(11) Publication number:

0 403 455 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **90850187.7**(51) Int. Cl.⁵: **H04B 10/12**(22) Date of filing: **18.05.90**(30) Priority: **16.06.89 SE 8902164**(43) Date of publication of application:
19.12.90 Bulletin 90/51(84) Designated Contracting States:
BE CH DE FR GB LI(88) Date of deferred publication of the search report:
13.05.92 Bulletin 92/20(71) Applicant: **TELEVERKET****S-123 86 Farsta(SE)**(72) Inventor: **Vucins, Viesturs**
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(54) **Arrangement for controlling the bandwidth in equipment for transmitting via single-mode fibre regardless of signal format.**

(57) The invention relates to an arrangement for controlling the bandwidth in equipment for transmitting via single-mode connections between equipments regardless of their signal format. The arrangement comprises a transmitting channel (1) and a receiving channel (2). The transmitting channel comprises a converter arrangement and a single-mode transmitter (6). The converter arrangement comprises an amplifier (5) and possibly a multi-mode detector (9). The converter arrangement converts an electrical signal or a multi-mode signal into a form which is suitable for feeding into the single-mode transmitter

(6). The receiving channel comprises a single-mode detector (8) and a converter arrangement. The converter arrangement comprises an amplifier (7) and possibly a multi-mode transmitter (11). The converter arrangement converts the electrical signal from the single-mode detector into an electrical signal or a multi-mode signal. According to the invention, the transmitting and receiving channels comprise controllable filters (10) for controlling the bandwidth of the arrangement, which can be utilized in charging the customer.

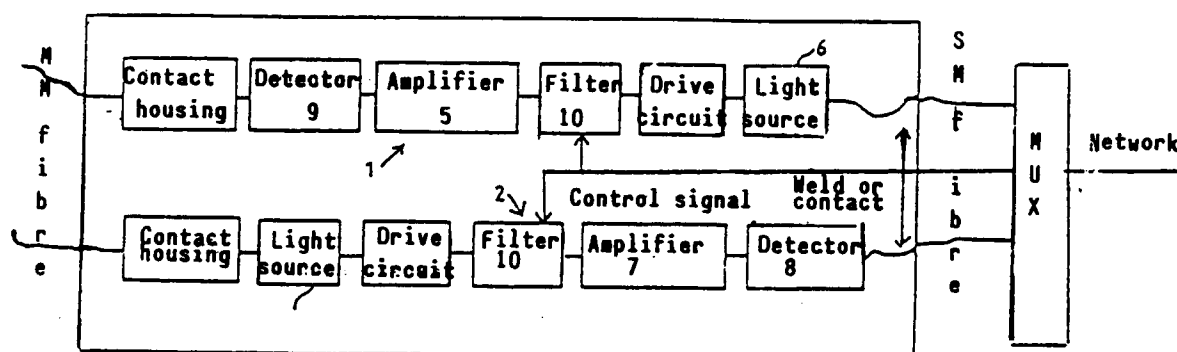


Fig. 2

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EUROPEAN SEARCH REPORT

Application Number

EP 90 85 0187

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	GB-A-2 113 035 (STC)	1	H04B10/12
Y	* page 1, line 40 - line 51 *	2	
	* page 2, line 4 - line 21; figure 3 *		

Y	US-A-4 694 471 (BLESSER)	2	
A	* abstract; figures 1,2 *	1	

A	FERNMELODETECHNISCHE ZEITSCHRIFT FTZ. vol. 39, no. 7, July 1986, BERLIN DE pages 490 - 500; BÜTTNER ET. AL.: 'Optische Nachrichtenübertragungssysteme für den Weitverkehr' * figure 4 *	1	

The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H04B
Place of search THE HAGUE		Date of completion of the search 16 MARCH 1992	Examiner WAGNER U.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	